

Plus Search

10671909_CLSTITLES1.txt

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10671909 on August 03, 2005

- 24 250/231.13 (17 OR, 7 XR)
Class 250 : RADIANT ENERGY
250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
250/216 .Optical or pre-photocell system
250/229 ..Light valve (e.g., iris diaphragm)
250/231.1 ...Actuated by dynamic external physical quantity
250/231.13Shaft angle transducers
- 21 250/237G (1 OR, 20 XR)
Class 250 : RADIANT ENERGY
250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
250/216 .Optical or pre-photocell system
250/237R ..Hoods, grating, baffles, diaphragms, masks
250/237G ...Gratings (moire fringes)
- 18 341/13 (3 OR, 15 XR)
Class 341 : CODED DATA GENERATION OR CONVERSION
341/1 DIGITAL PATTERN READING TYPE CONVERTER
341/13 .Optical
- 17 250/231.16 (10 OR, 7 XR)
Class 250 : RADIANT ENERGY
250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
250/216 .Optical or pre-photocell system
250/229 ..Light valve (e.g., iris diaphragm)
250/231.1 ...Actuated by dynamic external physical quantity
250/231.13Shaft angle transducers
250/231.14Incremental shaft readers; i.e., with means to generate increments of angular shaft rotation
250/231.16Using phase difference of output signals from plural photodetectors
- 15 250/231.14 (8 OR, 7 XR)
Class 250 : RADIANT ENERGY
250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
250/216 .Optical or pre-photocell system
250/229 ..Light valve (e.g., iris diaphragm)
250/231.1 ...Actuated by dynamic external physical quantity
250/231.13Shaft angle transducers
250/231.14Incremental shaft readers; i.e., with means to generate increments of angular shaft rotation
- 14 250/231.18 (4 OR, 10 XR)
Class 250 : RADIANT ENERGY
250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
250/216 .Optical or pre-photocell system
250/229 ..Light valve (e.g., iris diaphragm)
250/231.1 ...Actuated by dynamic external physical quantity
250/231.13Shaft angle transducers
250/231.14Incremental shaft readers; i.e., with means to generate increments of angular shaft rotation
250/231.18Position indicating shaft encoders with means to generate a unique signal for each specific angular shaft position

- 11 369/44.27 (6 OR, 5 XR)
 Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL
 369/43 WITH SERVO POSITIONING OF TRANSDUCER ASSEMBLY
 OVER TRACK COMBINED WITH INFORMATION SIGNAL PROCESSING
 369/44.11 .Optical servo system
 369/44.27 ..Initialization/start-up or changing modes of
 system
- 10 341/15 (5 OR, 5 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/1 DIGITAL PATTERN READING TYPE CONVERTER
 341/15 .Magnetic, inductive or capacitive
- 9 324/207.25 (2 OR, 7 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/200 MAGNETIC
 324/207.11 .Displacement
 324/207.25 ..Rotary
- 9 369/53.37 (2 OR, 7 XR)
 Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL
 369/53.1 CONDITION INDICATING, MONITORING, OR TESTING
 369/53.11 .Including radiation storage or retrieval
 369/53.37 ..Initialization or start-up mode or changing
 system mode:
- 7 341/11 (4 OR, 3 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/1 DIGITAL PATTERN READING TYPE CONVERTER
 341/11 .Incremental
- 6 318/602 (2 OR, 4 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/560 POSITIONAL SERVO SYSTEMS (E.G.,
 SERVOMECHANISMS)
 318/600 .Digital or numerical systems
 318/601 ..Digital comparison
 318/602 ...Commutating switch-type encoder
- 6 324/207.21 (1 OR, 5 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/200 MAGNETIC
 324/207.11 .Displacement
 324/207.13 ..Having particular sensor means
 324/207.21 ...Magnetoresistive
- 6 341/6 (2 OR, 4 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/1 DIGITAL PATTERN READING TYPE CONVERTER
 341/6 .With directional discrimination
- 5 318/632 (2 OR, 3 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/560 POSITIONAL SERVO SYSTEMS (E.G.,
 SERVOMECHANISMS)
 318/632 .With compensating features
- 5 341/9 (0 OR, 5 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/1 DIGITAL PATTERN READING TYPE CONVERTER
 341/9 .Having combined (e.g., denominational,
 combination code) coding pattern

- 4 101/248 (3 OR, 1 XR)
 Class 101 : PRINTING
 101/212 ROLLING CONTACT MACHINES
 101/216 .Rotary
 101/248 ..Cylinder-registering mechanisms
- 4 200/11G (0 OR, 4 XR)
 Class 200 : ELECTRICITY: CIRCUIT MAKERS AND BREAKERS
 200/1R MULTIPLE CIRCUIT CONTROL
 200/6R .Pivoted contact
 200/11R ..Dial type
 200/11G ...Leaf spring bias
- 4 200/11R (3 OR, 1 XR)
 Class 200 : ELECTRICITY: CIRCUIT MAKERS AND BREAKERS
 200/1R MULTIPLE CIRCUIT CONTROL
 200/6R .Pivoted contact
 200/11R ..Dial type
- 4 250/229 (1 OR, 3 XR)
 Class 250 : RADIANT ENERGY
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
 250/216 .Optical or pre-photo cell system
 250/229 ..Light valve (e.g., iris diaphragm)
- 4 250/231.17 (0 OR, 4 XR)
 Class 250 : RADIANT ENERGY
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
 250/216 .Optical or pre-photo cell system
 250/229 ..Light valve (e.g., iris diaphragm)
 250/231.1 ...Actuated by dynamic external physical quantity
 250/231.13Shaft angle transducers
 250/231.14Incremental shaft readers; i.e., with means to generate increments of angular shaft rotation
 250/231.17With means to indicate a complete shaft rotation
- 4 318/603 (1 OR, 3 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/560 POSITIONAL SERVO SYSTEMS (E.G., SERVOMECHANISMS)
 318/600 .Digital or numerical systems
 318/603 ..Pulse-counting systems
- 4 318/640 (0 OR, 4 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/560 POSITIONAL SERVO SYSTEMS (E.G., SERVOMECHANISMS)
 318/638 .With particular "error-detecting" means
 318/640 ..Photoelectric or optical-type measuring instruments
- 4 324/174 (1 OR, 3 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/160 ELECTRICAL SPEED MEASURING
 324/166 .Including speed-related frequency generator
 324/173 ..Including magnetic detector
 324/174 ...Permanent magnet type
- 4 340/870.37 (3 OR, 1 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL

- 340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,
TELEMETERING)
- 340/870.3 .With particular transmitter (e.g.,
piezoelectric, dynamo)
- 340/870.37 ..Capacitive transmitter
- 4 341/2 (0 OR, 4 XR)
Class 341 : CODED DATA GENERATION OR CONVERSION
341/1 DIGITAL PATTERN READING TYPE CONVERTER
341/2 .Plural denominationally related carriers
(e.g., coarse/fine geared discs)
- 4 369/53.29 (2 OR, 2 XR)
Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL
369/53.1 CONDITION INDICATING, MONITORING, OR TESTING
369/53.11 .Including radiation storage or retrieval
369/53.25 ..Of transducer assembly mechanism
369/53.29 ...Transduced location indicating
- 4 369/53.3 (1 OR, 3 XR)
Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL
369/53.1 CONDITION INDICATING, MONITORING, OR TESTING
369/53.11 .Including radiation storage or retrieval
369/53.3 ..Of relative motion producing mechanism
- 4 377/17 (1 OR, 3 XR)
Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR
SHIFT REGISTERS: CIRCUITS AND SYSTEMS
377/1 APPLICATIONS
377/17 .Position determining
- 4 377/45 (1 OR, 3 XR)
Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR
SHIFT REGISTERS: CIRCUITS AND SYSTEMS
377/27 SYSTEMS
377/45 .Including reversible counter
- 4 600/459 (4 OR, 0 XR)
Class 600 : SURGERY
600/300 DIAGNOSTIC TESTING
600/407 .Detecting nuclear, electromagnetic, or
ultrasonic radiation
600/437 ..Ultrasonic
600/459 ...Structure of transducer or probe assembly
- 4 720/660 (1 OR, 3 XR)
720/658 DYNAMIC MECHANISM OPTICAL SUBSYSTEM
720/659 .Having power driven optical transducer
assembly
720/660 ..Sensor detecting position of optical
transducer
Could not find class title.
- 3 33/203.12 (1 OR, 2 XR)
Class 033 : GEOMETRICAL INSTRUMENTS
33/501 GAUGE
33/203 .Wheel
33/203.12 ..With wheel supporting means
- 3 73/633 (0 OR, 3 XR)
Class 073 : MEASURING AND TESTING
73/570 VIBRATION
73/584 .By mechanical waves

- 73/596 ..Beamed
 73/632 ...Sonic wave transmitter or receiver
 transducer
 73/633Having transducer scanning means
- 3 200/18 (0 OR, 3 XR)
 Class 200 : ELECTRICITY: CIRCUIT MAKERS AND BREAKERS
 200/1R MULTIPLE CIRCUIT CONTROL
 200/17R .Operating means
 200/18 ..Plural switch
- 3 250/231.15 (0 OR, 3 XR)
 Class 250 : RADIANT ENERGY
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
 250/216 .Optical or pre-photocell system
 250/229 ..Light valve (e.g., iris diaphragm)
 250/231.1 ...Actuated by dynamic external physical
 quantity
 250/231.13Shaft angle transducers
 250/231.14Incremental shaft readers; i.e., with
 means to generate increments of angular shaft rotation
 250/231.15With plural gear driven discs
- 3 250/551 (0 OR, 3 XR)
 Class 250 : RADIANT ENERGY
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
 250/551 .Signal isolator
- 3 310/68B (2 OR, 1 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/66 ..With other elements
 310/68R ...Electric circuit elements
 310/68BCondition responsive (e.g., position,
 torque, etc.)
- 3 318/630 (0 OR, 3 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/560 POSITIONAL SERVO SYSTEMS (E.G.,
 SERVOMECHANISMS)
 318/630 .Antibacklash systems (e.g., with
 unidirectional approach to balance)
- 3 318/85 (0 OR, 3 XR)
 Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 318/34 PLURAL, DIVERSE OR DIVERSELY CONTROLLED
 ELECTRIC MOTORS
 318/85 .Synchronizing or phasing control
- 3 324/175 (1 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/160 ELECTRICAL SPEED MEASURING
 324/166 .Including speed-related frequency generator
 324/175 ..Including radiant energy detector
- 3 324/207.2 (2 OR, 1 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/200 MAGNETIC
 324/207.11 .Displacement
 324/207.13 ..Having particular sensor means
 324/207.2 ...Hall effect

- 3 327/4 (1 OR, 2 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G.,
 COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT CONTROL
 327/2 .By phase
 327/3 ..Comparison between plural inputs (e.g., phase
 angle indication, lead-lag discriminator, etc.)
 327/4 ...With transducer
- 3 341/10 (0 OR, 3 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/1 DIGITAL PATTERN READING TYPE CONVERTER
 341/9 .Having combined (e.g., denominational,
 combination code) coding pattern
 341/10 ..Constant distance code
- 3 345/156 (2 OR, 1 XR)
 Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
 INTERFACE PROCESSING, AND SELECTIVE VISUAL DISPLAY
 SYSTEMS
 345/156 DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
- 3 345/184 (1 OR, 2 XR)
 Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
 INTERFACE PROCESSING, AND SELECTIVE VISUAL DISPLAY
 SYSTEMS
 345/156 DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
 345/184 .Mechanical control (e.g., rotatable knob,
 slider)
- 3 360/75 (3 OR, 0 XR)
 Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR
 RETRIEVAL
 360/69 AUTOMATIC CONTROL OF A RECORDER MECHANISM
 360/75 .Controlling the head
- 3 377/24 (2 OR, 1 XR)
 Class 377 : ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR
 SHIFT REGISTERS: CIRCUITS AND SYSTEMS
 377/1 APPLICATIONS
 377/19 .Measuring or testing
 377/24 ..Dimension
- 3 600/446 (3 OR, 0 XR)
 Class 600 : SURGERY
 600/300 DIAGNOSTIC TESTING
 600/407 .Detecting nuclear, electromagnetic, or
 ultrasonic radiation
 600/437 ..Ultrasonic
 600/443 ...Anatomic image produced by reflective
 scanning
 600/445Mechanical scanning
 600/446Hand-held unit
- 3 901/23 (0 OR, 3 XR)
 Class 901 : ROBOTS
 901/19 DRIVE SYSTEM FOR ARM
 901/23 .Electric motor
- 2 29/40 (1 OR, 1 XR)
 Class 029 : METAL WORKING

29/33R PLURAL DIVERSE MANUFACTURING APPARATUS
 INCLUDING MEANS FOR METAL SHAPING OR ASSEMBLING
 29/35.5 .With turret mechanism
 29/39 ..Tool turret
 29/40 ...Rotary tool holder

2 33/1PT (1 OR, 1 XR)
 Class 033 : GEOMETRICAL INSTRUMENTS
 33/1R MISCELLANEOUS
 33/1PT .Angular position transducer

2 33/203.14 (1 OR, 1 XR)
 Class 033 : GEOMETRICAL INSTRUMENTS
 33/501 GAUGE
 33/203 .Wheel
 33/203.12 ..With wheel supporting means
 33/203.14 ...Pivoted or sliding scuff board

2 33/707 (0 OR, 2 XR)
 Class 033 : GEOMETRICAL INSTRUMENTS
 33/700 DISTANCE MEASURING
 33/706 .Scale reading position sensor (e.g., grid
 counting)
 33/707 ..Optical

2 74/471XY (1 OR, 1 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/469 CONTROL LEVER AND LINKAGE SYSTEMS
 74/471R .Multiple controlled elements
 74/471XY ..Control moves in two planes

2 74/813L (1 OR, 1 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/813R ROTARY MEMBER OR SHAFT INDEXING, E.G., TOOL OR
 WORK TURRET
 74/813L .Locking means

2 82/12 (2 OR, 0 XR)
 Class 082 : TURNING
 82/11 AXIAL PATTERN
 82/12 .Pivoted tool rest

2 82/18 (0 OR, 2 XR)
 Class 082 : TURNING
 82/18 PATTERN SECTION

2 82/19 (0 OR, 2 XR)
 Class 082 : TURNING
 82/18 PATTERN SECTION
 82/19 .Cam-controlled cutter

2 91/361 (1 OR, 1 XR)
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE
 FLUID CONTROL
 91/361 .Electrical input and feedback signal means
 (459)

2 91/459 (0 OR, 2 XR)
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
 91/418 WITH MOTIVE FLUID VALVE
 91/459 .Electrically operated (275) (361)

- 2 101/219 (0 OR, 2 XR)
 Class 101 : PRINTING
 101/212 ROLLING CONTACT MACHINES
 101/216 .Rotary
 101/219 ..Web
- 2 112/220 (0 OR, 2 XR)
 Class 112 : SEWING
 112/270 ELEMENTS
 112/220 .Driving mechanisms
- 2 125/13.01 (1 OR, 1 XR)
 Class 125 : STONE WORKING
 125/12 SAWING
 125/13.01 .Rotary
- 2 200/4 (1 OR, 1 XR)
 Class 200 : ELECTRICITY: CIRCUIT MAKERS AND BREAKERS
 200/1R MULTIPLE CIRCUIT CONTROL
 200/4 .Combined pivoted and reciprocating contact
- 2 200/564 (1 OR, 1 XR)
 Class 200 : ELECTRICITY: CIRCUIT MAKERS AND BREAKERS
 200/502 SOLID CONTACT
 200/564 .Rotating actuator (e.g., dial)
- 2 235/375 (1 OR, 1 XR)
 Class 235 : REGISTERS
 235/375 SYSTEMS CONTROLLED BY DATA BEARING RECORDS
- 2 250/231.1 (1 OR, 1 XR)
 Class 250 : RADIANT ENERGY
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
 250/216 .Optical or pre-photocell system
 250/229 ..Light valve (e.g., iris diaphragm)
 250/231.1 ...Actuated by dynamic external physical quantity
- 2 250/559.29 (1 OR, 1 XR)
 Class 250 : RADIANT ENERGY
 250/200 PHOTOCELLS; CIRCUITS AND APPARATUS
 250/559.01 .With circuit for evaluating a web, strand, strip, or sheet
 250/559.29 ..Measuring position
- 2 271/270 (1 OR, 1 XR)
 Class 271 : SHEET FEEDING OR DELIVERING
 271/8.1 FEEDING
 271/264 .By means to convey sheet (e.g., from pack to operation)
 271/270 ..With means to vary speed of conveyor sheet
- 2 310/268 (0 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/10 DYNAMOELECTRIC
 310/40R .Rotary
 310/261 ..Rotor structure
 310/264 ...Armatures
 310/268Disc
- 2 310/323.03 (0 OR, 2 XR)
 Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/300 NON-DYNAMOELECTRIC

- 310/311 .Piezoelectric elements and devices
- 310/321 ..Combined with resonant structure
- 310/323.01 ...Direct mechanical coupling
- 310/323.02Motor producing continual motion
- 310/323.03Traveling wave motor
- 2 310/348 (2 OR, 0 XR)
 - Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 - 310/300 NON-DYNAMOELECTRIC
 - 310/311 .Piezoelectric elements and devices
 - 310/348 ..With mounting or support means
- 2 318/283 (0 OR, 2 XR)
 - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/280 MOTOR-REVERSING
 - 318/283 .Automatic and/or with time-delay means
- 2 318/561 (2 OR, 0 XR)
 - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/560 POSITIONAL SERVO SYSTEMS (E.G., SERVOMECHANISMS)
 - 318/561 .Adaptive or optimizing systems including "bang-bang" servos
- 2 318/568.22 (1 OR, 1 XR)
 - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/560 POSITIONAL SERVO SYSTEMS (E.G., SERVOMECHANISMS)
 - 318/567 .Program- or pattern-controlled systems
 - 318/568.1 ..With program recording or composing means
 - 318/568.11 ...Multifunction manipulator (i.e., Robot)
 - 318/568.22With particular compensation (e.g., gain, offset, etc.)
- 2 318/615 (0 OR, 2 XR)
 - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/560 POSITIONAL SERVO SYSTEMS (E.G., SERVOMECHANISMS)
 - 318/611 .with stabilizing features (e.g., anti-hunting, damping)
 - 318/615 ..By auxiliary feedback loop
- 2 318/616 (0 OR, 2 XR)
 - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/560 POSITIONAL SERVO SYSTEMS (E.G., SERVOMECHANISMS)
 - 318/611 .with stabilizing features (e.g., anti-hunting, damping)
 - 318/615 ..By auxiliary feedback loop
 - 318/616 ...Rate feedback
- 2 318/618 (0 OR, 2 XR)
 - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
 - 318/560 POSITIONAL SERVO SYSTEMS (E.G., SERVOMECHANISMS)
 - 318/611 .with stabilizing features (e.g., anti-hunting, damping)
 - 318/615 ..By auxiliary feedback loop
 - 318/616 ...Rate feedback
 - 318/618Tachometer feedback
- 2 318/653 (1 OR, 1 XR)
 - Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS

- 318/560 POSITIONAL SERVO SYSTEMS (E.G.,
SERVOMECHANISMS)
318/638 .With particular "error-detecting" means
318/652 ..With particular position measuring
instruments
318/653 ...Magnetic transducers
- 2 318/654 (1 OR, 1 XR)
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
318/560 POSITIONAL SERVO SYSTEMS (E.G.,
SERVOMECHANISMS)
318/638 .With particular "error-detecting" means
318/652 ..With particular position measuring
instruments
318/654 ...Synchro control transmitter-transformer
systems
- 2 318/660 (1 OR, 1 XR)
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
318/560 POSITIONAL SERVO SYSTEMS (E.G.,
SERVOMECHANISMS)
318/638 .With particular "error-detecting" means
318/652 ..With particular position measuring
instruments
318/656 ...Differential transformer systems
318/660"Inductosyn" systems
- 2 318/661 (1 OR, 1 XR)
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
318/560 POSITIONAL SERVO SYSTEMS (E.G.,
SERVOMECHANISMS)
318/638 .With particular "error-detecting" means
318/652 ..With particular position measuring
instruments
318/656 ...Differential transformer systems
318/661Resolver systems
- 2 318/685 (2 OR, 0 XR)
Class 318 : ELECTRICITY: MOTIVE POWER SYSTEMS
318/560 POSITIONAL SERVO SYSTEMS (E.G.,
SERVOMECHANISMS)
318/671 .With particular motor control system
responsive to the "actuating signal"
318/685 .."Step-by-step" motors in closed-loop servos
- 2 324/160 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/160 ELECTRICAL SPEED MEASURING
- 2 324/162 (0 OR, 2 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/160 ELECTRICAL SPEED MEASURING
324/162 .With acceleration measuring means
- 2 324/165 (1 OR, 1 XR)
Class 324 : ELECTRICITY: MEASURING AND TESTING
324/160 ELECTRICAL SPEED MEASURING
324/163 .Including speed analog electrical signal
generator
324/165 ..With direction indicator
- 2 324/173 (1 OR, 1 XR)

- Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/160 ELECTRICAL SPEED MEASURING
 324/166 .Including speed-related frequency generator
 324/173 ..Including magnetic detector
- 2 324/207.13 (1 OR, 1 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/200 MAGNETIC
 324/207.11 .Displacement
 324/207.13 ..Having particular sensor means
- 2 324/207.18 (2 OR, 0 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/200 MAGNETIC
 324/207.11 .Displacement
 324/207.13 ..Having particular sensor means
 324/207.15 ...Inductive
 324/207.16Electrically energized
 324/207.18Differential type (e.g., LVDT)
- 2 324/252 (0 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/200 MAGNETIC
 324/244 .Magnetometers
 324/252 ..Semiconductor type solid-state or
 magnetoresistive magnetometers
- 2 324/660 (0 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
 REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
 RELATIONSHIPS
 324/649 .Lumped type parameters
 324/658 ..Using capacitive type measurement
 324/660 ...With variable electrode area
- 2 324/714 (2 OR, 0 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
 REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
 RELATIONSHIPS
 324/649 .Lumped type parameters
 324/691 ..Using resistance or conductance measurement
 324/713 ...With voltage or current signal evaluation
 324/714Including a potentiometer
- 2 324/715 (0 OR, 2 XR)
 Class 324 : ELECTRICITY: MEASURING AND TESTING
 324/600 IMPEDANCE, ADMITTANCE OR OTHER QUANTITIES
 REPRESENTATIVE OF ELECTRICAL STIMULUS/RESPONSE
 RELATIONSHIPS
 324/649 .Lumped type parameters
 324/691 ..Using resistance or conductance measurement
 324/713 ...With voltage or current signal evaluation
 324/715Including a particular probing technique
 (e.g., four point probe)
- 2 338/32R (1 OR, 1 XR)
 Class 338 : ELECTRICAL RESISTORS
 338/13 RESISTANCE VALUE RESPONSIVE TO A CONDITION
 338/32R .Magnetic field or compass (e.g., Hall effect)

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type)

- 2 340/672 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
 340/540 .Specific condition
 340/670 ..Velocity
 340/671 ...Angular
 340/672Direction of shaft rotation

- 2 340/680 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
 340/540 .Specific condition
 340/679 ..Machine condition
 340/680 ...Machine tool

- 2 340/870.29 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,
 TELEMETERING)
 340/870.28 .Via radiant energy beam (via particular
 energy)
 340/870.29 ..Photoelectric cell pickup

- 2 340/870.33 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,
 TELEMETERING)
 340/870.3 .With particular transmitter (e.g.,
 piezoelectric, dynamo)
 340/870.31 ..Inductive transmitter
 340/870.32 ...Mutual inductance
 340/870.33Flux valve type (e.g., with movable
 saturating magnet)

- 2 340/870.38 (0 OR, 2 XR)
 Class 340 : COMMUNICATIONS: ELECTRICAL
 340/870.01 CONTINUOUSLY VARIABLE INDICATING (E.G.,
 TELEMETERING)
 340/870.3 .With particular transmitter (e.g.,
 piezoelectric, dynamo)
 340/870.38 ..Resistive transmitter

- 2 341/1 (0 OR, 2 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/1 DIGITAL PATTERN READING TYPE CONVERTER

- 2 341/116 (0 OR, 2 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/111 PHASE OR TIME OF PHASE CHANGE
 341/112 .Synchro or resolver signal
 341/116 ..Analog resolver or synchro signal to digital
 signal

- 2 341/3 (1 OR, 1 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/1 DIGITAL PATTERN READING TYPE CONVERTER
 341/3 .Plural types of codes on single carrier

- 2 341/35 (1 OR, 1 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/20 BODILY ACTUATED CODE GENERATOR

- 341/35 .with rotary dial
- 2 341/7 (0 OR, 2 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION
 341/1 DIGITAL PATTERN READING TYPE CONVERTER
 341/7 .Antiambiguity feature
- 2 345/157 (2 OR, 0 XR)
 Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
 INTERFACE PROCESSING, AND SELECTIVE VISUAL DISPLAY
 SYSTEMS
 345/156 DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
 345/157 .Cursor mark position control device
- 2 345/168 (0 OR, 2 XR)
 Class 345 : COMPUTER GRAPHICS PROCESSING, OPERATOR
 INTERFACE PROCESSING, AND SELECTIVE VISUAL DISPLAY
 SYSTEMS
 345/156 DISPLAY PERIPHERAL INTERFACE INPUT DEVICE
 345/168 .Including keyboard
- 2 347/104 (2 OR, 0 XR)
 Class 347 : INCREMENTAL PRINTING OF SYMBOLIC INFORMATION
 347/1 INK JET
 347/101 .Medium and processing means
 347/104 ..Physical handling
- 2 356/394 (1 OR, 1 XR)
 Class 356 : OPTICS: MEASURING AND TESTING
 356/388 BY CONFIGURATION COMPARISON
 356/394 .With comparison to master, desired shape, or
 reference voltage
- 2 356/398 (0 OR, 2 XR)
 Class 356 : OPTICS: MEASURING AND TESTING
 356/388 BY CONFIGURATION COMPARISON
 356/398 .With object being compared and light beam
 moved relative to each other (e.g., scanning)
- 2 356/494 (1 OR, 1 XR)
 Class 356 : OPTICS: MEASURING AND TESTING
 356/450 BY LIGHT INTERFERENCE (E.G., INTERFEROMETER)
 356/491 .Having polarization
 356/492 ..For dimensional measurement
 356/493 ...Displacement or distance
 356/494Having wavefront division (e.g., by
 diffraction)
- 2 356/612 (1 OR, 1 XR)
 Class 356 : OPTICS: MEASURING AND TESTING
 356/601 SHAPE OR SURFACE CONFIGURATION
 356/612 .By specular reflection
- 2 359/814 (0 OR, 2 XR)
 Class 359 : OPTICS: SYSTEMS
 359/642 LENS
 359/811 .With support
 359/813 ..Lens movable in its plane
 359/814 ...Electromagnetic motive power
- 2 359/822 (0 OR, 2 XR)
 Class 359 : OPTICS: SYSTEMS

- 359/642 LENS
- 359/811 .With support
- 359/819 ..Lens mounts
- 359/822 ...Adjustable
- 2 359/824 (1 OR, 1 XR)
 - Class 359 : OPTICS: SYSTEMS
 - 359/642 LENS
 - 359/811 .With support
 - 359/819 ..Lens mounts
 - 359/822 ...Adjustable
 - 359/823With axial adjustment (e.g., adjustable focus, etc.)
 - 359/824Electromagnetic or piezoelectric drive
- 2 360/77.03 (0 OR, 2 XR)
 - Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL
 - 360/69 AUTOMATIC CONTROL OF A RECORDER MECHANISM
 - 360/75 .Controlling the head
 - 360/77.01 ..Track centering
 - 360/77.02 ...Rotary carrier
 - 360/77.03By nonmagnetic sensing (e.g., optical, capacitive)
- 2 360/78.11 (0 OR, 2 XR)
 - Class 360 : DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL
 - 360/69 AUTOMATIC CONTROL OF A RECORDER MECHANISM
 - 360/75 .Controlling the head
 - 360/78.01 ..Track changing
 - 360/78.04 ...For rotary carrier (e.g., disc)
 - 360/78.11Including nonmagnetic position sensing
- 2 369/44.14 (2 OR, 0 XR)
 - Class 369 : DYNAMIC INFORMATION STORAGE OR RETRIEVAL
 - 369/43 WITH SERVO POSITIONING OF TRANSDUCER ASSEMBLY, OVER TRACK COMBINED WITH INFORMATION SIGNAL PROCESSING
 - 369/44.11 .Optical servo system
 - 369/44.14 ..Optical head servo system structure
- 2 399/227 (2 OR, 0 XR)
 - Class 399 : ELECTROPHOTOGRAPHY
 - 399/130 IMAGE FORMATION
 - 399/222 .Development
 - 399/223 ..Plural diverse (e.g., color)
 - 399/226 ...Plural applicators single position
 - 399/227Rotary type
- 2 400/320 (0 OR, 2 XR)
 - Class 400 : TYPEWRITING MACHINES
 - 400/283 CARRIAGE OR CARRIAGE-MOVING OR MOVEMENT-REGULATING MECHANISM
 - 400/319 .Carriage-feed mechanism (e.g., escapement, etc.)
 - 400/320 ..For carriage on which a type-head-carrier is mounted
- 2 400/322 (1 OR, 1 XR)
 - Class 400 : TYPEWRITING MACHINES
 - 400/283 CARRIAGE OR CARRIAGE-MOVING OR MOVEMENT-REGULATING MECHANISM
 - 400/319 .Carriage-feed mechanism (e.g., escapement,

etc.)

- 400/322 ..By electric or magnetic power
- 2 400/323 (1 OR, 1 XR)
 Class 400 : TYPEWRITING MACHINES
 400/283 CARRIAGE OR CARRIAGE-MOVING OR
 MOVEMENT-REGULATING MECHANISM
 400/319 .Carriage-feed mechanism (e.g., escapement,
 etc.)
 400/323 ..Carriage-feed in two directions (e.g.,
 continuous typing in both directions)
- 2 400/705.1 (0 OR, 2 XR)
 Class 400 : TYPEWRITING MACHINES
 400/679 MEANS AUXILIARY TO TYPEWRITING FUNCTION
 400/703 .Indicator means
 400/705 ..For indicating position of carriage along
 print-line
 400/705.1 ...Of carriage for type-head-carrier
- 2 400/708 (0 OR, 2 XR)
 Class 400 : TYPEWRITING MACHINES
 400/679 MEANS AUXILIARY TO TYPEWRITING FUNCTION
 400/703 .Indicator means
 400/706 ..For indicating position of line or
 end-of-page
 400/708 ...Including detector of record-medium
- 2 414/730 (1 OR, 1 XR)
 Class 414 : MATERIAL OR ARTICLE HANDLING
 414/680 VERTICALLY SWINGING LOAD SUPPORT
 414/729 .Grab
 414/730 ..Programmable or condition responsive means
 controls grab operation
- 2 417/17 (1 OR, 1 XR)
 Class 417 : PUMPS
 417/1 CONDITION RESPONSIVE CONTROL OF PUMP DRIVE
 MOTOR
 417/17 .With plural separate drive motor controlling
 elements
- 2 417/42 (0 OR, 2 XR)
 Class 417 : PUMPS
 417/1 CONDITION RESPONSIVE CONTROL OF PUMP DRIVE
 MOTOR
 417/42 .In response to pump speed
- 2 417/423.4 (0 OR, 2 XR)
 Class 417 : PUMPS
 417/321 MOTOR DRIVEN
 417/410.1 .Electric or magnetic motor
 417/423.1 ..Rotary motor and rotary nonexpansible chamber
 pump
 417/423.4 ...Turbomolecular pump
- 2 417/44.1 (2 OR, 0 XR)
 Class 417 : PUMPS
 417/1 CONDITION RESPONSIVE CONTROL OF PUMP DRIVE
 MOTOR
 417/44.1 .By control of electric or magnetic drive motor

- 2 417/474 (0 OR, 2 XR)
 Class 417 : PUMPS
 417/437 EXPANSIBLE CHAMBER TYPE
 417/474 .Elongated flexible chamber wall progressively deformed
- 2 451/5 (1 OR, 1 XR)
 Class 451 : ABRADING
 451/1 PRECISION DEVICE OR PROCESS - OR WITH CONDITION RESPONSIVE CONTROL
 451/5 .Computer controlled
- 2 464/185 (0 OR, 2 XR)
 Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
 464/185 MISCELLANEOUS
- 2 600/429 (0 OR, 2 XR)
 Class 600 : SURGERY
 600/300 DIAGNOSTIC TESTING
 600/407 .Detecting nuclear, electromagnetic, or ultrasonic radiation
 600/425 ..with tomographic imaging obtained from electromagnetic wave
 600/429 ...With stereotactic device
- 2 600/562 (0 OR, 2 XR)
 Class 600 : SURGERY
 600/300 DIAGNOSTIC TESTING
 600/562 .Sampling nonliquid body material (e.g., bone, muscle tissue, epithelial cells, etc.)
- 2 604/67 (1 OR, 1 XR)
 Class 604 : SURGERY
 604/19 MEANS FOR INTRODUCING OR REMOVING MATERIAL FROM BODY FOR THERAPEUTIC PURPOSES (E.G., MEDICATING, IRRIGATING, ASPIRATING, ETC.)
 604/48 .Treating material introduced into or removed from body orifice, or inserted or removed subcutaneously
 other than by diffusing through skin
 604/65 ..Material flow varying means controlled by condition responsive sensor
 604/67 ...Sensor controls pump, motor, or pressure driven means
- 2 606/130 (2 OR, 0 XR)
 Class 606 : SURGERY
 606/1 INSTRUMENTS
 606/130 .Stereotaxic device
- 2 702/151 (1 OR, 1 XR)
 Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING
 702/127 MEASUREMENT SYSTEM
 702/150 .Orientation or position
 702/151 ..Angular position
- 2 720/659 (2 OR, 0 XR)
 720/658 DYNAMIC MECHANISM OPTICAL SUBSYSTEM
 720/659 .Having power driven optical transducer assembly
 could not find class title.

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2 720/683 (1 OR, 1 XR)
720/658 DYNAMIC MECHANISM OPTICAL SUBSYSTEM
720/672 .Transducer carriage or actuator
720/681 ..Adjustable objective lens support
720/682 ...Linear leaf springs
720/683Coil or magnet
Could not find class title.

2 901/46 (0 OR, 2 XR)
Class 901 : ROBOTS
901/46 SENSING DEVICE

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Most Frequently Occurring Classifications of Patents Returned
From A Search of 10671909 on August 03, 2005

Original Classifications

17 250/231.13
10 250/231.16
8 250/231.14
6 369/44.27
5 341/15
4 250/231.18
4 341/11
4 600/459
3 101/248
3 200/11R
3 340/870.37
3 341/13
3 360/75
3 600/446
2 82/12
2 310/348
2 310/68B
2 318/561
2 318/602
2 318/632
2 318/685
2 324/207.18
2 324/207.2
2 324/207.25
2 324/714
2 341/6
2 345/156
2 345/157
2 347/104
2 369/44.14
2 369/53.29
2 369/53.37
2 377/24
2 399/227
2 417/44.1
2 606/130
2 720/659

Cross-Reference Classifications

20 250/237G
15 341/13
10 250/231.18
7 250/231.13
7 250/231.14
7 250/231.16
7 324/207.25
7 369/53.37
5 324/207.21
5 341/15
5 341/9
5 369/44.27
4 200/11G
4 250/231.17
4 318/602
4 318/640
4 341/2
4 341/6
3 73/633

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3 200/18
 3 250/229
 3 250/231.15
 3 250/551
 3 318/603
 3 318/630
 3 318/632
 3 318/85
 3 324/174
 3 341/10
 3 341/11
 3 369/53.3
 3 377/17
 3 377/45
 3 720/660
 3 901/23
 2 33/203.12
 2 33/707
 2 82/18
 2 82/19
 2 91/459
 2 101/219
 2 112/220
 2 310/268
 2 310/323.03
 2 318/283
 2 318/615
 2 318/616
 2 318/618
 2 324/160
 2 324/162
 2 324/175
 2 324/252
 2 324/660
 2 324/715
 2 327/4
 2 340/672
 2 340/680
 2 340/870.29
 2 340/870.33
 2 340/870.38
 2 341/1
 2 341/116
 2 341/7
 2 345/168
 2 345/184
 2 356/398
 2 359/814
 2 359/822
 2 360/77.03
 2 360/78.11
 2 369/53.29
 2 400/320
 2 400/705.1
 2 400/708
 2 417/42
 2 417/423.4
 2 417/474
 2 464/185
 2 600/429
 2 600/562
 2 901/46

Combined Classifications

24 250/231.13
21 250/237G
18 341/13
17 250/231.16
15 250/231.14
14 250/231.18
11 369/44.27
10 341/15
9 324/207.25
9 369/53.37
7 341/11
6 318/602
6 324/207.21
6 341/6
5 318/632
5 341/9
4 101/248
4 200/11G
4 200/11R
4 250/229
4 250/231.17
4 318/603
4 318/640
4 324/174
4 340/870.37
4 341/2
4 369/53.29
4 369/53.3
4 377/17
4 377/45
4 600/459
4 720/660
3 33/203.12
3 73/633
3 200/18
3 250/231.15
3 250/551
3 310/68B
3 318/630
3 318/85
3 324/175
3 324/207.2
3 327/4
3 341/10
3 345/156
3 345/184
3 360/75
3 377/24
3 600/446
3 901/23
2 29/40
2 33/1PT
2 33/203.14
2 33/707
2 74/471XY
2 74/813L
2 82/12
2 82/18
2 82/19
2 91/361
2 91/459
2 101/219

2 112/220
2 125/13.01
2 200/4
2 200/564
2 235/375
2 250/231.1
2 250/559.29
2 271/270
2 310/268
2 310/323.03
2 310/348
2 318/283
2 318/561
2 318/568.22
2 318/615
2 318/616
2 318/618
2 318/653
2 318/654
2 318/660
2 318/661
2 318/685
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2 324/207.13
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2 360/77.03
2 360/78.11
2 369/44.14
2 399/227
2 400/320
2 400/322
2 400/323
2 400/705.1
2 400/708
2 414/730

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2 417/17
2 417/42
2 417/423.4
2 417/44.1
2 417/474
2 451/5
2 464/185
2 600/429
2 600/562
2 604/67
2 606/130
2 702/151
2 720/659
2 720/683
2 901/46